

# FINAL EXAMINATIONS

- Model Examinations of the School Book
   (2 models + model for the special needs students)
- **⊙** 20 Model Examinations.

# **Model Examinations of the School Book**

# Model 1

### **Answer the following questions:**

- 1 Complete each of the following :
  - (1) 1.5 litre + 0.5 dm $^3$  + 500 cm $^3$  = ..... litres.
  - (2) The volume of a cuboid is 64 cm<sup>3</sup> and the area of its base is 16 cm<sup>2</sup>, then its height = ..... cm.
  - (3) If the real length of an insect is 0.3 mm. and its length in a picture is 4.5 cm., then the drawing scale = .....:
  - (4) The area of the triangle =  $\frac{1}{2} \times \cdots \times \times \cdots \times \times \cdots$
  - (5) If A: B = 2:3, B: C = 3:5, then A: C = .....
  - of 40 students in one test, then the number of students who got less than 30 marks = .....

Marks	10 –	20 –	30 – 40
Number of students	10	13	17

### 2 Choose the correct answer:

(1) The range of the set of values: 7,3,6,9 and 5 is .....

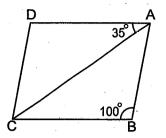
(2 or 4 or 6 or 12)

- (2)  $\frac{3}{4} = \dots$  (in decimal form) (0.2 or 0.5 or 0.25 or 0.75)
- (3) An agricultural tractor ploughs 28 feddans in 4 hours, then the time which is needed to plough 42 feddans is ...... hours.

(4 or 6 or 7 or 8)

### (4) In the opposite figure:

ABCD is a parallelogram. , then  $m \ (\angle \ ACD) = \cdots$ 



(35° or 45° or 100° or 180°)

(5) If 
$$\frac{2}{5} = \frac{x}{15}$$
, then  $x = \dots$ 

(2 or 5 or 6 or 15)

(6) The following data are descriptive data except .....

(favorite colour. or age. or birth place. or blood species.)

- [a] A container has 12 litres of oil, it is wanted to put them in smaller bottles the capacity of each of them is 400 cm<sup>3</sup>. Calculate the number of bottles which are needed.
  - **[b]** If the buying price of electric sets is L.E. 72 000 and sold at 12 % profit. Calculate the selling price.
- [a] The ratio among the measures of the angles of a triangle is 2 : 3 : 4 Find the measure of each angle in this triangle.
  - **[b]** A metallic cube of edge length 12 cm. It needs to be converted it into ingots in the shape of cuboid each of them of dimensions 3 cm., 4 cm. and 6 cm. Calculate the number of ingots that are obtained.
- [a] Two persons started a commercial business, the first paid L.E. 5 000 and the second paid L.E. 8 000, at the end of the year, the net profit was L.E. 3 900 Calculate the share of each of them from the profit.
  - [b] The following table shows the marks of 100 students in one month in math test:

Marks	10 –	20 –	30 –	40 – 50	Total
Number of students	15	30	40	15	100

Draw the frequency curve of this distribution.

# Model 2

### **Answer the following questions:**

# 1 Choose the correct answer :

(1) If one angle of a parallelogram is right, then it is called a ......

(rectangle. or square. or rhombus. or cube.)

(2) 
$$\frac{24}{5}$$
 = .....

$$(4\frac{1}{5} \text{ or } 3\frac{2}{5} \text{ or } 4\frac{4}{5} \text{ or } 2\frac{4}{5})$$

(4) If 
$$\frac{4}{6} = \frac{12}{x}$$
, then  $x + 2 = \dots$  (16 or 18 or 20 or 22)

(5) 
$$1\frac{3}{4} = \cdots \%$$

**(6)** 
$$\frac{513}{614}$$
 ......  $\frac{432}{145}$ 

$$(> or < or = or \ge)$$

# 2 Complete the following statements :

- (1) The data: the age, the tall, the weight and favorite food are quantitative data except ......
- (2) A wooden box in the form of a cube, its external volume is 1 000 cm<sup>3</sup> and its capacity is 729 cm<sup>3</sup>, then the volume of wood of the box = ...... cm<sup>3</sup>.
- (3) The following table shows the marks of 50 students in one month in math:

Marks	10 –	20 –	30 –	40 – 50	Total
Number of students	5	15	20	10	50

then the number of students whose marks are less than 40 is ..... students.

$$(5)\frac{3}{4}+5\frac{1}{2}=7-\cdots$$

- (6) A car consumes 20 litres of petrol to cover a distance 250 km.
- [a] Three persons started in business, the first paid 15 000 pounds, the second paid 25 000 pounds and the third paid 20 000 pounds, at the end of the year, the profit was 5 520 pounds.

Calculate the share of each of them.

- [b] 10 litres of water were poured in a vessel in the shape of a cuboid, its base is a square of side length 25 cm. Find the height of the water in the vessel.
- [a] In one of our schools, there are 360 students, if the ratio between the number of boys and the number of girls is 1:2

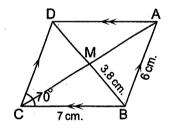
  Find each of the number of boys and girls.
  - [b] In the opposite figure:

ABCD is a parallelogram in which AB = 6 cm.

, BC = 7 cm. , BM = 3.8 cm. , m (∠ C) = 
$$70^{\circ}$$

Without using geometrical instruments.

Find : m ( $\angle$  ADC), the perimeter of  $\triangle$  BCD



- [a] Heba bought a mobile phone for 660 pounds with a discount 15 % Calculate the price of the mobile phone before the discount.
  - [b] The following table shows the number of hours which are spent by 40 pupils to study their lesson daily:

Number of hours	1 –	2 –	3 –	4 –	5 – 6	Total
Number of pupils	6	3	8	12	11	40

Represent these data by the frequency curve.

# Model for the special needs students

### **Answer the following questions:**

# 1 Complete the following statements:

(1) 5 000 grams: 8 kilograms = ..... (in the simplest form)

(2) 
$$\frac{3}{10}$$
 = ..... %

(3) The volume of a cuboid = the area of base × .....

(4) 3 litres =  $\dots$  cm<sup>3</sup>.

# 2 Choose the correct answer:

(1) The range of the values 50, 25, 35 and 20 is .....

(10 or 20 or 30)

(2) If 
$$\frac{2}{3} = \frac{10}{x}$$
, then  $x = \dots$  (6 or 15 or 20)

(3) The diagonals are perpendicular in .....

(rectangle or square or parallelogram)

# 3 Choose from column (A) to the suitable one from column (B) :

<b>A</b>
(1) The cube has ······ edges.
(2) If the drawing scale < 1, this
expresses ······
(3) The ratio between the side length of
the square and its perimeter = ······
(4) All of angles of the rectangle are equal
in measure and the measure of any of
them =

<b>B</b> minimization
12
90°
1:4

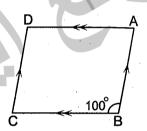
# 4 Put true (✔) or false (✗) :

- (1) The numbers 1,2,6 and 12 are proportional.
- (2) If the percentage of boys is 35 % from the total of the number of pupils in a class, then the percentage of girls is 20 %
- (3) The favorite colour is a descriptive data.
- (4) The volume of a cube of edge length 3 cm. = 9 cm<sup>2</sup>

# [a] Complete each of the following:

### (2) In the opposite figure:

ABCD is a parallelogram , then  $m \; (\angle \; D) = \cdots \cdots ^{\circ}$ 



### [b] The following table shows the marks of 50 students in one month in maths:

Marks	10 –	20 –	30 –	40 – 50	Total
Number of students	6	10	20	14	50

### Complete:

- (1) The number of students whose marks are less than 20 = ..... students.
- (2) The number of students whose marks are 40 or more = ..... students.

# Some School's Examinations from Different Governorats



Nasr City Edu. Administration St. George's College



#### Answer the following questions:

11 Choose the correct answer	
MINISTER TO COTTOCT SINGNAL	•

( 1 ) If the ratio among the measurements of the angles of the tria	ngle is	s 3 : 4	1:5
then the measure of the greatest angle = ············			

(90° or 75° or 60° or 55°)

$$(2) 16:48 = \cdots : (1:2 \text{ or } 1:4 \text{ or } 1:5 \text{ or } 1:3)$$

(3) 5.7 litres = 
$$\cdots$$
 cm<sup>3</sup> (5.7 or 570 or 570)

(4) 3, 4, x and 12 are proportional quantities, then  $x = \dots$ 

(5) The two diagonals are equal in length and perpendicular in .....

( parallelogram or square or rectangle or rhombus )

(6) 
$$\frac{2}{5} = \dots \%$$
 (20 or 30 or 40 or 50)

(7) The range of the values 7, 3, 6, 9 and 1 is .....

(8) 
$$\frac{1}{2}$$
 kg.: 700 gm. = ...... (2:7 or 7:8 or 5:7 or 7:9)

(9) If the drawing length of an object is 2 cm. and the real length is 20 m., then the drawing scale is = .....

(10) If the volume of a cube =  $0.125 \text{ cm}^3$ , then its edge length = ..... cm.

(11) Ahmed drinks 21 glasses of milk weekly, then he drinks ...... glasses of milk everyday. (3 or 9 or 6 or 12)

(12) From the quantitative data is .....

# 2 Complete each of the following:

- (1) If the lower limit of the set = 10 and the upper limit = 30, then the centre = .....
- (2) If A: B = 1: 2 and B: C = 3:5, then A: C = .....:
- (3) If the drawing length < 1, this express .....
- (4) 3 weeks: 24 days = ..... (in the simplest form)
- **(5)** 1 (37 % + 41 %) = ················
- (6) The ratio between two numbers is 7:12, if their sum is 76, then the greater number = .....
- (7) A cuboid is of dimensions 8 cm., 6 cm. and 10 cm., then its volume is ......cm<sup>3</sup>
- (8) If the perimeter of one face of a cube is 24 cm., then its volume is ......cm<sup>3</sup>.

# 3 Answer the following questions:

(1) Khaled bought a flat for L.E. 150 000 After selling it, he found that the percentage of his loss was 5 % Calculate the selling price of the flat.

(2) A cube, the perimeter of its base is 40 cm. Calculate its volume.

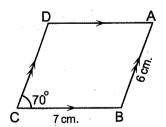
## (3) In the opposite figure:

ABCD is a parallelogram, in which m ( $\angle$  BCD) = 70°,

AB = 6 cm. and BC = 7 cm.

Find : **[a]** m (∠ D)

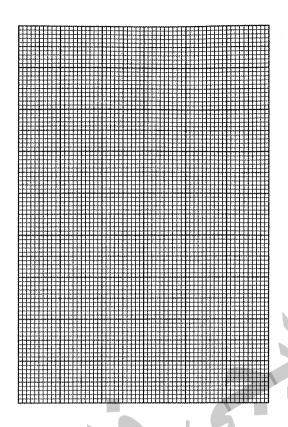
**[b]** The length of each of  $\overline{CD}$  and  $\overline{AD}$ 



(4) The following table shows the number of hours, which are spent by 60 pupils:

Number of hours	10 –	20 –	30 –	40 –	50 –	Total
Number of pupils	9	13	18	12	8	60

Represent this distribution by a frequency curve.





Maadi Educational Zone Victory College Maadi



### Answer the following questions:

Choose	the	corr	ect	answer	:

(1) If A: B = 2: 3 and B: C = 3:5, then A: C = .....:

(3:2 or 5:2 or 4:5 or 2:5)

(2) The following data are descriptive data except .....

(favorite colour or age or name or birth place)

- (3) 8 000 gm.:  $5 \text{ kg.} = \cdots (4:5 \text{ or } 5:8 \text{ or } 2:3 \text{ or } 8:5)$
- (4) If one angle of a parallelogram is right, then its called .....

(rectangle or rhombus or square or cube)

(5) The cuboid has ..... faces.

(6 or 4 or 12 or 8)

**(6)** 1.75 = ············ %

(75 or 0.175 or 175 or 17.5)

### 2 Complete:

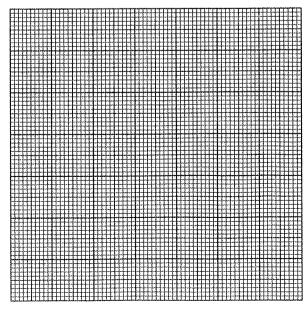
- (1) If the drawing scale > 1, this expresses .....
- (2) Mona deposit L.E. 9 000 in a bank with interest 11 % per year, the amount of sum after one year = L.E. .....

	<b>3)</b> If Hazem studies 21 hours week <b>3)</b> The ratio between two numbers	kly,then the rate = ··········· hours/day = ·····
3 Ch	oose the correct answer :	
	) 5.6 dm <sup>3</sup> = ············ litres.	(5600 or 560 or 5.6 or 56)
•	•	th of an equilateral triangle and its perimeter (1:3 or 1:4 or 1:1 or 3:1)
( 3	) The ·····is a ratio with seco	and term is 100
	( proportion or	percentage or rate or drawing scale)
	) The ratio between a child's age to 8 years, then his father's age is	o his father's age is 2:9, if the child's age isyears. (63 or 13 or 36 or 18)
( 5	) If $\frac{2}{3} = \frac{12}{x}$ , then $x + 2 = \dots$	(16 or 20 or 18 or 36)
( 6		if the ratio between the number of boys then the number of boys is
		(300 or 240 or 352 or 675)
4 Co	mplete each of the following:	
(1	) If the length of an insect in the p , then the drawing scale =	icture is 10 cm. and its real length is 2 mm.
(2	) In the parallelogram, the sum o angles is°	f the measures of any two consecutive
(3	) The range of the $7,3,6,9$ and	d 5 is
(4)	) The sum of lengths of all edgescm <sup>3</sup>	of a cube is 132 cm. , then its volume is
5 Ans	swer the following :	
<u> </u>		commerce, the first paid L.E. 1 500, the chird paid L.E. 2 500, at the end of the year
	Find the share of each of them fr	rom loss.

(2)	10 litres of water were poured in a vessal in the shape of a cuboid, its base is square of side length is 25 cm.
	Find the height of the water in the vessel.
(3)	The perimeter of a rectangle is 140 cm. and the ratio between its
	dimensions is 3 : 4 Find its area.
(4)	Which is greater in volume, a cuboid whose dimensions are 12 cm.,
	10 cm. and 8 cm. or a cube of edge length 10 cm. ?
(5)	The following table shows the number of hours which spent by 40 pupils to study their lessons daily:
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Number of hours	1 –	2 –	3 –	4 –	5-6	Total
Number of pupils	6	3	8	12	11	40

Represent these data using the frequency curve.



# **3** Giza Governorate

#### Omrania Educational Zone El-Shahid (M.M.A) Exp. Lang. Sch.



#### **Answer the following questions:**

1	Choose the	correct	answer

	•	
(1) The volume of a cube equals	125 cm $^3$ , then the area of its base = $\cdots$	

(5 cm<sup>2</sup> or 25 cm<sup>2</sup> or 125 cm<sup>2</sup> or 100 cm<sup>2</sup>)

$$(2)\frac{2}{5} = \dots \%$$
 (20 or 30 or 40 or 50)

(3) If a:b=3:5 and b:c=5:7, then  $a:c=\cdots$ 

(2:3 or 3:4 or 3:7 or 8:7)

$$(4)1-25\% = \cdots$$
  $(\frac{3}{4} \text{ or } \frac{1}{4} \text{ or } \frac{1}{8} \text{ or } \frac{3}{8})$ 

(5) If the numbers 3, 5, x and 20 are proportional, then  $x + 3 = \dots$ 

(6 or 12 or 15 or 21)

# 2 Choose the correct answer:

(1) 
$$\frac{3}{4}$$
 litre = ..... mL.

(0.75 or 7.5 or 750 or 75)

(2) The two diagonals are perpendicular in .....

(rectangle or rhombus or triangle or parallelogram)

(3) The range of the values 7,3,6,9 and 1 is .....

(8 or 1 or 7 or 0)

- (4) The ratio between Aya's age and Eman's age is 1:6, if Aya's age is 6 years old, then Eman's age is .....years old. (32 or 36 or 39 or 42)
- (5) If 45% of x = 90, then  $x = \dots$  (20 or 100 or 200 or 300)
- (6) The ratio between 15 hours and one day in the simplest form = .....

(1:15 or 15:1 or 8:5 or 5:8)

# 3 Complete:

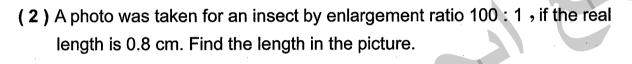
- (1) The number of axes of symmetry of a parallelogram is ......
- (2) The two diagonals are equal in length and perpendicular in .....
- (3) The difference between the maximum value and the minimum value is called ......
- (4) 12: 18: 36 = ······:: : ······:: (in the simplest form).

#### Final Examinations

- ( 5 ) A rate is .....
- (6) 30 months: 3 years = ..... (in the simplest form).
- (7) If 2, x, 8 and 20 are proportional, then  $x = \cdots$
- (8) The drawing scale =

# 4 Answer the following:

(1) Find the cost price of goods sold for 21 275 pounds with profit percentage 15 %

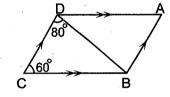


- (3) In the opposite figure:

ABCD is a parallelogram.

Find : **[a]** m (∠ ADB)

**[b]** m (∠ A)

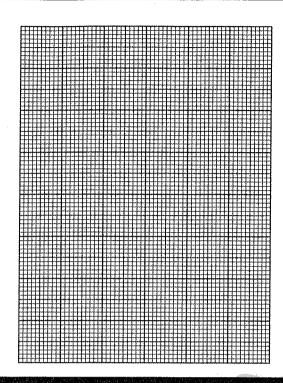


(4) Which is greater in volume, a cube of edge length 5 cm. or a cuboid of dimensions 3 cm., 5 cm. and 7 cm.?

(5) The following table shows the marks of 100 students in a maths test:

Marks	10 –	20 –	30 –	40 – 50	Total
Number of students	15	30	40	15	100

Draw the frequency curve of this distribution.



# 4 Alexandria Governorate

West Educational Zone Maths Supervision



#### Answer the following questions:

# 1 Choose the correct answer :

(1) 
$$\frac{1}{2}$$
 kg. ..... 700 gm.

$$(< or > or = or \ge)$$

(2) 
$$\frac{3}{4}$$
 :  $\frac{5}{6}$  = 9: .....

$$(3)\frac{7}{20} = \cdots$$

(4) The parallelogram is a quadrilateral in which the sum of the measures of any two consecutive angles equals .....

(5) 4 m
$$^3$$
 = ..... dm $^3$ 

(6) If the numbers 4, x, 12, 18 are proportional, then  $x = \dots$ 

(8) If 
$$\frac{5}{8} = \frac{15}{x}$$
, then  $x = \dots$ 

(9) If the distance between two cities on a map is 3 cm., and the real distance between them is 9 km., then the drawing scale of the map = 1: .....

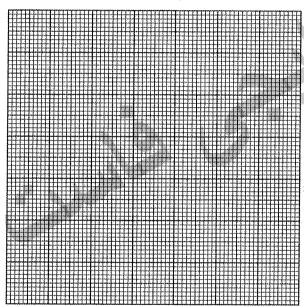
	(11) The cuboid has six faces each of them is
	( a rectangle or a square or a rhombus or a cube )
	(12) If the marks of 6 students in one exam is 29 , 33 , 57 , 40 , 36 , 49 , then the range of these marks =
2	Complete each of the following :
	(1) The volume of a cube of edge length 4 cm. = cm <sup>3</sup> .
	(2) As comparing between two similar quantities or numbers and of the same unit, then the resultant fraction is called
	( 3 ) The ratio between the circumference of the circle and its diameter length =:
	(4) If the real length of an insect is 0.3 mm. and its length in a picture is 4.5 cm.  then the drawing scale =
	(5) In the opposite figure :  ABCD is a parallelogram  then m (∠ ACD) =°
	(6) If A: B = 2:3, B: C = 3:5, then A: C =:
	(7) The drawing length =
	(8) The maximum mark – The minimum mark = ···································
3	Answer the following :
	(1) If the ratio between the weight of Hani and the weight of Ahmed is 5:6,
	if the weight of Ahmed is 60 kilograms.
	Calculate the weight of Hani.
	(2) If Hazem studies 21 hours weekly, then find the rate of his studying daily.
	(3) A cuboid of volume is 2 128 cm <sup>3</sup> , its height is 14 cm. Find the area of its base.

(4) A swimming pool in the shape of a cuboid, whose internal dimensions are 40 m. , 30 m. and 1.8 m. Find its capacity in litres.

(5) The following table shows the number of hours which spent by 40 pupils to study their lessons daily:

Number of hours	1 –	2 –	3 –	4 –	5-6	Total
Number of pupils	6	3	8	12	11	40

Represent these data using the frequency curve.



# El-Kalyoubia Governorate

Banha Educational Zone Maths Supervision



### Answer the following questions:

1 Choose the correct answer:

(1) If A: B = 2:3, B: C = 3:5, then A: C = .....

(3:5 or 2:5 or 5:3 or 5:2)

(2) If 
$$\frac{4}{6} = \frac{12}{x}$$
, then  $x + 2 = \dots$  (16 or 18 or 20 or 22)  
(3)  $\frac{3}{4} = \dots$  (in a decimal form) (0.2 or 0.25 or 0.5 or 0.75)

(3) 
$$\frac{3}{4} = \dots$$
 (in a decimal form) (0.2 or 0.25 or 0.5 or 0.75)

(4) A car consumes 20 litres of petrol to cover a distance 250 km., then the rate of consumption of the car is .....

(0.08 L./km. or 0.8 L./km. or 8 L./km. or 80 L./km.)

(5) If the real length of an insect is 0.3 mm. and its length in a picture 4.5 cm., then the drawing scale = .....

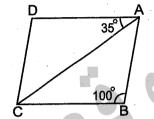
(1:15 or 1:150 or 150:1 or 15:1)

- (6)  $\frac{3}{10} = \dots$  (300 % or 40 % or 30 % or 0.3 %)
- (7) If the volume of a cuboid is 64 cm<sup>3</sup> and the area of its base 16 cm<sup>2</sup>, then its height =  $\cdots$  (4 m. or 0.4 cm. or 4 dm. or 4 cm.)
- (8) In the opposite figure:

ABCD is parallelogram

, then m (∠ ACD) = .....

(35° or 55° or 45° or 60°)



- (9) A cube, the sum of lengths of all edges is 132 cm.
  - , then its volume = .....

 $(1771 \text{ cm}^3 \text{ or } 1331 \text{ cm}^3 \text{ or } 1444 \text{ cm}^3 \text{ or } 299968 \text{ cm}^3)$ 

(10) In your class, if the percentage of boys is 35 % from the total number of pupils, then the percentage of the girls in this class = ......

(65% or 55% or 75% or 35%)

(11) The following data are descriptive data except .....

(favorite color or age or birth place or blood species)

(12) If the numbers 9, 21, 3, x are proportional, then  $x = \dots$ 

(9 or 8 or 7 or 6)

## 2 Complete the following:

- (1) ABC is an equilateral triangle where AB = 5 cm., then the ratio between AB and the perimeter of triangle ABC = .....:
- (2) The range of the set of values 50, 25, 35, 20 is .....
- (3) An agricultural tractor ploughs 28 feddans in 4 hours, the time which need to plough 42 feddans is ...... hours.
- (4) The ratio between child's age and his father is 1:10 and the age of child is 6 years, then the father's age = ...... years.
- (5) Hasnaa drew a picture for Omar with drawing scale 1:40, if the real height of Omar is 160 cm., then the height of Omar in the picture = ...... cm.
- (6) If one angle in a parallelogram is right, then it is called .....
- (7) 2.65 litres =  $\dots$  dm<sup>3</sup> =  $\dots$  cm<sup>3</sup>.
- (8) 16 kirats: 1 feddan = ..... (in the simplest form)

# 3 Answer the following:

- (1) Two persons started a commercial business, the first paid L.E. 5 000 and the second paid L.E. 8 000 At the end of the year, the profit was L.E. 3 900 Calculate the share of each of them from the profit.
- (2) A building worker used 1 500 bricks to build a wall, calculate the volume of the wall in m<sup>3</sup> if the brick is in the shape of a cuboid of dimension 25 cm., 12 cm., 6 cm.
- (3) An auto fair owner bought a car for L.E. 45 000, then he spent L.E. 5 000 for repairing it, then he sold it for L.E. 55 000 Calculate:
  - [a] The profit after selling.
  - [b] The percentage of profit.

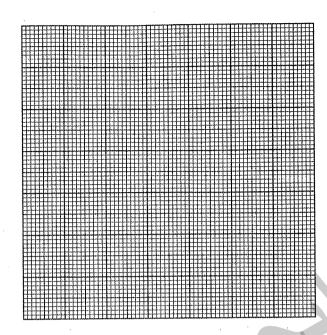
(4) 10 litres of water were poured in a vessel in the shape of a cuboid its base is a square of side length is 25 cm. Find the height of water in the vessel.

(5) The following table shows the number of hours which spent by 40 pupils to study their lessons:

Number of hours	1 –	2 –	3 –	4 –	5 – 6	Total
Number of pupils	6	Х	8	12	11	40

[a] Find the value of X

[b] Represent these data using the frequency curve.





Belbeis Educational Administration Al-Resala Language Schools

 $(\frac{1}{4} \text{ or } \frac{3}{4} \text{ or } \frac{2}{6} \text{ or } \frac{4}{7})$ 



### **Answer the following questions:**

# 1 Choose the correct answer:

(1) The fraction that represents the shaded part = .....



(0.23 or 230 or 2.3 or 0.023)

(3) If 
$$\frac{4}{6} = \frac{8}{x}$$
, then  $x + 2 = \dots$ 

(15 or 14 or 16 or 12)

(4) The ratio between 15 hours, one day = .....

(1:15 or 15:1 or 8:5 or 5:8)

- (5) If the range of some values is 40 and the number of sets is 10, then the (5 or 7 or 6 or 4) length of set = ·····
- (6) All of the following data are quantitative except .....

(tallness or age or name or phone number)

(7) The number of angles in the following shape = .....



(1 or 2 or 3 or 4) /



(8) The range of the values 29, 33, 57, 40, 36 is .....

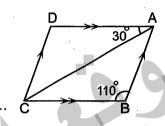
(27 or 28 or 29 or 24)

(9) If 10 A , 2 , 2 A , B are proportion	(0.2 or 0.4 or 0.5 or 0.3)
(10) If $x$ , 16, 6, 8 are proportional	$1$ , then $x = \cdots$
· · · · · · · · · · · · · · · · · · ·	(1 or 6 or 8 or 12)
(11) 6.5 L. = ····· dm <sup>3</sup>	(56 or 6.5 or 5600 or 56000)
(12) If a car covered 180 km. in thre = km./hr.	then the velocity of this car ( 80 or 60 or 50 or 20
Complete the following :	
(13) $\frac{5}{4}$ : 2 = (in the second contraction)	he simplest form)
(14) If the lower limit of the set = 10 and	d the upper limit = 30, then its centre = ·············
	d the length of a rectangle is 3 : 4, then
length : perimeter = ·············	between two persons in the ratio 5:6, then
what the first took = th	
(17) 1 – (24 % + 35 %) = ·········· %	
(18) If the drawing scale < 1, its rep	oresents
(19) Discover the pattern and write t	the description of 🔷 🔾 is
(20) The range of values (6, 2, 7,	$x$ ) is 9, then $x = \dots$
Answer the following questions:	
(21) In a school, if the number of stagirls $\frac{3}{5}$ of boys, find the number	tudents is 560 students, if the number of each of boys and girls.
	······································
*	
	other Osama by drawing scale 1 : 40, if the
(22) Ahmed drew a picture of his brown real length is 160 cm. Find the	
	drawing length.

#### Final Examinations

(23) A cube of cheese, its edge length is 15 cm., it is wanted to be divided it into small cubes, the edge length of each is 3 cm. for presenting them through meals. Calculate the number of the resulting small cubes.

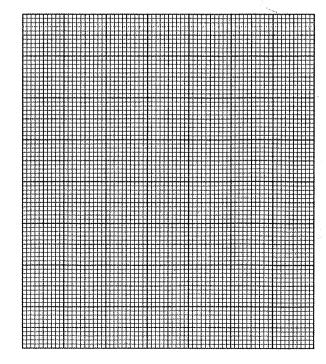
(24) The opposite figure shows a parallelogram in which m ( $\angle$  B) = 110° and m ( $\angle$  DAC) = 30° Find : m ( $\angle$  D) , m ( $\angle$  BAC) and m ( $\angle$  ACD)



(25) The following table shows a sample of patients who suffer from a certain disease in a hospital due to the hours which were spent till they became healthy:

Number of hours	1-	2 –	3 –	4 –	5 –	6 –	Total
Number of patients	7	11	15	6	4	2	45

Represent these data by a frequency curve.



# (7)

# El-Monofia Governorate

Shiben El-Kom Educational Directorate Maths Department



#### Answer the following questions:

Choose	the	correct	answer	

_	_						
11	) The	following	ı data ar	e descriptive	: data	except	•••••

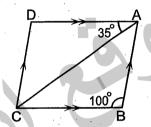
(favorite color or age or birth place or blood species)



ABCD is parallelogram

, then m (∠ ADC) = .....

(35° or 45° or 100° or 135°)



(3) If the numbers 3,5, x and 20 are proportional, then  $x = \dots$ 

(6 or 12 or 15 or 21)

(4) If one of angles of the parallelogram is right, then the resulting figure is a ...... (rectangle or square or rhombus or cube)

(5) If an agriculture tractor ploughs 28 feddans in 4 hours, then the time

(7) The sum of edge lengths of a cube is 24 cm., then its volume = ...... cm<sup>3</sup>.

(2 or 8 or 12 or 24)

 $(8) 25\% \text{ of } 1000 = \dots$  (2000 or 1500 or 250 or 500)

(9) The ratio between 250 grams and  $\frac{1}{2}$  kg. = .....

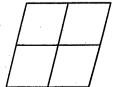
(2:1 or 2:3 or 1:2 or 3:2)

(10) A machine produces 600 metres of clothes regularity in one hour and half, then the rate of production in metre per hour = ..... metre/hour

(500 or 400 or 300 or 200)

### (11) In the opposite figure:

The number of parallelograms which can be obtained is .....



(4 or 5 or 7 or 9) (12) The following in this pattern  $\bigwedge \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$  is .....

 $(\triangle \text{ or } \bigcirc \text{ or } \square \text{ or } \bigcirc)$ 

# 2 Complete :

- (1)  $\frac{1}{4} = \cdots \%$
- (2) If the dimensions of cuboid are equal in length, then it is called a .....
- (3) The range of the set of the values 7,3,15 and 8 is .....
- (4) The ratio between the side length of the square and its perimeter
- (5) If  $\frac{4}{6} = \frac{12}{x}$ , then  $x 2 = \dots$
- (6) 1 500 dm $^3$  = ..... litres
- (8) If A: B = 2:3, B: C = 3:5, then A: C = .....:

# 3 Answer the following:

(1) Heba bought a vacuum cleaner for 220 pounds with a discount 20 % Calculate the price before discount.

(2) If the ratio between Hadir's weight and Basma's weight is 5: 6 and the difference between their weights is 10 kg. Calculate the weight of each of them.

(3) In a metallic cube whose edge length is 12 cm. we want to melt and convert it to a number of cuboid alloys of dimensions 3 cm. , 4 cm. and 6 cm. Calculate the number of alloys which can be obtained.

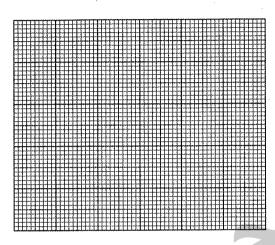
.....

(4) A container has 12 litres of oil. We need to distribute it on small bottles with each one of the capacity 400 cm<sup>2</sup> Calculate the number of the needed bottles.

# (5) The following table shows the marks of 100 pupils in mathematics:

Marks	10 –	20 –	30 –	40 – 50	Total
No. of pupils	15	40	30	15	100

Draw the frequency curve for this distribution.



# 8 El-Gharbia Governorate El-Gharbia Educational Directorate Maths Supervision



Answer the following questions:

# 1 Choose the correct answer:

(1) If 
$$\frac{4}{6} = \frac{12}{x}$$
, then  $x + 2 = \dots$  (16 or 18 or 20 or 22)

(2) The following data are descriptive data except .....

(favorite color or age or birth place or blood species)

(3) The volume of a cube is 27 cm<sup>3</sup>, then the perimeter of its base equals ..... cm.

(36 or 24 or 27 or 12)

(4) The ratio between the circumference of the circle and its diameter length = ......  $(\pi:1 \text{ or } 2\pi:1 \text{ or } 1:4 \text{ or } \pi:d)$ 

(5) If the volume of a cuboid = 300 cm<sup>3</sup>, its base area = 25 cm<sup>2</sup>, then its height = ..... cm. (12 or 13 or 14 or 15)

(7) If one angle of the parallelogram is right and its sides are equal in length, then it is called ...... (square or rhombus or triangle or rectangle)

(8) 
$$1 - (35\% + 25\%) = \cdots$$
 ( $\frac{1}{2}$  or  $\frac{1}{3}$  or  $\frac{2}{5}$  or  $\frac{3}{4}$ )

#### Final Examinations

(9) The diagonals are perpendicular and have the same length in the .....

(square or rectangle or trapezium or parallelogram)

- (10) 1.45 litres + 0.5 dm<sup>3</sup> = ..... litres. (1.5 or 1.95 or 1.55 or 6.5)
- (11) The percentage is a ratio, which its second term is ......

(10 or 100 or 1000 or 10000)

(12) How many bottles of 750 mL. each can be filled with 30 litres of water?

(4 or 40 or 400 or 4000)

(1:2:6 or 1:2:4 or 1:2:3 or 3:2:1)

(14) 12 % of 500 kg. = ..... kg.

(40 or 50 or 60 or 70)

## 2 Complete the following :

- (16) 16 kirats : 1 feddan = ..... (in the simplest form)
- (17) 2.65 litres = ..... dm<sup>3</sup>.
- (18)  $\frac{7}{20} = \cdots \%$
- (20) If the sum of lengths of all edges of a cube is 132 cm. , then its volume  $= \dots$  cm<sup>3</sup>.
- (22) If Hassan spends L.E. 45 within three days, then the rate of what Hassan spends per day is ......

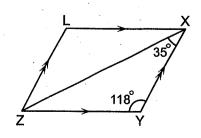
# 3 Answer the following:

(23) In the opposite figure:

XYZL is a parallelogram in which

 $m (\angle Y) = 118^{\circ}, m (\angle YXZ) = 35^{\circ}$ 

Find :  $m (\angle L) \cdot m (\angle LXZ)$ 



Calculate the n	umber of	ingots th	nat are obta		••••••	and 6 ci
( <b>25</b> ) Three persons s paid 25 000 pou the net profit wa	ınds and t ıs 5 520 p	the third ounds. (	s. The first p paid 20 000 Calculate th	O pounds. A e share of	pounds, It the end each of th	the seco
(26) The following ta			rke of 100 s			o in math
(20) The following ta	DIG SHOW:	20 –	30 -	40 –	50 –	Total
Number of stu	dents	15	30	40	15	100
<b>9 El-Dakahlia</b> swer the following q  Choose the correct	uestions t answer	•		hs Supervision	s circumfe	

(3) 
$$\frac{x}{5} = 60 \%$$
, then  $x + 3 = \dots$  (3 or 6 or 600 or 30)

$$(4) \frac{1}{2} : \frac{3}{4} : \frac{2}{3} = \dots$$
 (6:8:9 or 8:9:6 or 9:6:8 or 6:9:8)

(magnification 
$$or$$
 reduction  $or$  congruent  $or$  otherwise)

- (11) All of the following data are descriptive except .....

(12) A car consumes 4 litres of fuel to cover distance 100 km., then the rate of consumption is ...... litre per km. (25 or 0.4 or 0.04 or 400)

### 2 Complete:

(1) In parallelogram ABCD , m (
$$\angle$$
 A) + m ( $\angle$  C) = 140°, then m ( $\angle$  B) = .....°

(2) The volume of cuboid with dimensions 10 cm. 
$$_{9}$$
8 cm. and 7 cm. = ..... cm<sup>3</sup>

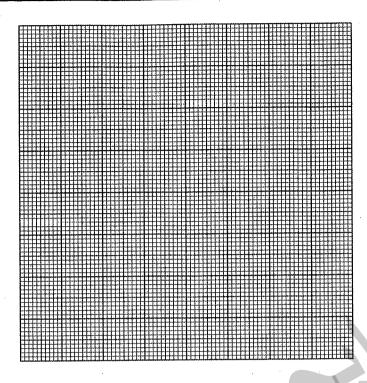
(4) 1.5 litre + 0.35 dm
$$^3$$
 + 150 cm $^3$  = ..... cm $^3$ 

(5) If 
$$A = \frac{1}{2} B$$
, then B:  $A = \dots \%$ 

Answer the following :
(1) If the number of pupils in a school is 630 pupils, if the ratio between the
number of boys and the number of girls is 5 : 4 Find the number of each.
(2) A map is drawn with scale 1:400 000, if the distance between two cities
12 km. Find the distance between them on the map.
(2) A trader bought a TV act by LE (4.500 and add it with profit 10.0/
(3) A trader bought a TV set by L.E. 4 500 and sold it with profit 10 %
Find the selling price.
(4) A box in a cuboid shape with square base its side length is 40 cm. and heigh
30 cm. is filled by bars of soaps in a cuboid shape with dimensions 6 cm.
4 cm. and 5 cm. Find the greatest number of soaps can be put in the box.
(5) The following table shows the number of hours which 50 pupils sper
to study their lessons daily :
N 1 2 5 7 0 41 Total

Represent these data by using a frequency curve.

Number of pupils



# 10 Ismailia Governorate

South Ismailia Educational Zone Suez Canal Language School



#### **Answer the following questions:**



(2) If 
$$\frac{2}{5} = \frac{x}{15}$$
, then  $x = \dots$  (2 or 5 or 6 or 15)

(4) If the number 2, 7, 
$$x$$
 and 21 are proportional, then  $x = \cdots$ 

(6) 
$$0.3 \text{ m}^3 = \dots \text{dm}^3$$
 (3 000 or 300 or 30 or 3)

- (7) If the volume of a cuboid equals 315 cm<sup>3</sup>, its base with length 9 cm. and width 7 cm., then its height = ..... cm. (7 or 5 or 63 or 45)
- (8) The two diagonals are equal in length and perpendicular in .....

(9) 
$$\frac{4}{5} = \cdots \%$$

(10) If Hany drinks 21 glasses of milk weekly, then he drinks ...... glasses of milk every 3 days. (3 or 6 or 9 or 12)

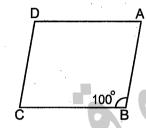
(11) 
$$\frac{1}{2}$$
 kg. : 700 gm. = ....

(2:7 or 
$$\frac{7}{8}$$
 or  $\frac{5}{7}$  or  $\frac{7}{9}$ )

#### (12) In the opposite figure:

ABCD is a parallelogram, then:  

$$m (\angle D) = \cdots \circ$$



(100 or 60 or 80 or 70)

# 2 Complete:

- (1) The range of the set of values 7,3,6,9 and 5 is .....
- (2) If the drawing scale < 1, then this expresses .....
- (3) A cuboid of dimensions 5 cm., 6 cm. and 2 cm., its volume is ..... cm.
- (4) 1.5 litres + 0.5 dm $^3$  + 500 cm $^3$  = ..... litres.
- **(5)** 1 (15 % + 45 %) = ...... %
- (6)  $\frac{1}{4}:\frac{1}{3}:\frac{1}{2}=\cdots\cdots:$  (in the simplest form)
- (7) The number of pupils in a primary school is 360 pupils, if the ratio between the number of boys and the number of girls is 1:2, then the number of boys = .....
- (8) If the edge length of a cube = 4 cm., then the volume = .....cm<sup>3</sup>

## 3 Answer the following :

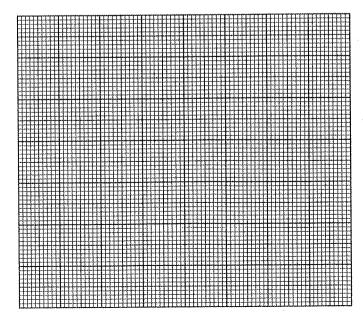
1) If the buying price of electri	ic sets is L.E. 72 000 and sold at 12 % profit.
Calculate the selling price.	

(2)	Three persons started a business, the first paid 15 000 pounds, the
	second paid 25 000 pounds and the third paid 20 000 pounds, at the end
	of the year the profit was 5 520 pounds. Calculate the share of each of them.
(3)	10 litres of water were poured in a vessel in the shape of a cuboid its base
	is a square base of side length 25 cm. Find height of the water in the vessel

(4) The following table shows of money in pounds paid by a group of contributors in a charity:

The sum	50 –	60 –	70 –	80 –	90 –	100 –
Number of contributors	5	7	10	12	10	7

Draw the frequency curve of this distribution.



# 11 Suez Governorate

#### South Educational Directorate Maths Inspection



#### **Answer the following questions:**

1				
Choose	the	correct	answer	•

(1) $\frac{2}{5}$ : $\frac{7}{2}$ =:	(5:7	or 4:35	or 2:7	or 5:2)
--------------------------------------	------	---------	--------	---------

- (3) The percentage is a ratio its second term is ......

- (4) 39 days  $\simeq$  ..... weeks. (4 or 5 or 6 or 7)
- (5) The ratio between the length of the side of the equilateral triangle and its perimeter = ...... (1:3 or 3:1 or 4:1 or 1:4)
- (6) Cuboid of dimensions (5 cm., 2 cm., 7 cm.), its volume =  $\frac{3}{24}$  (24 or 48 or 65 or 70)
- (7) The following data are descriptive data except ......

(favorite colour or birth place or age or blood species)

(8) If 
$$\frac{x}{5} = 40 \%$$
, then  $x = \dots$  (2 or 4 or 5 or 8)

- (9)  $3 \text{ m}^3 = \dots$  litres. (300 or 3000 or 300000 or 300000)
- (10)  $\frac{3}{4} = \dots \%$  (25 or 50 or 57 or 75)
- (12) If the length of an insect in the picture is 4 cm. and its real length is 2 mm. , the drawing scale is .....:

(2:1 or 1:2 or 20:1 or 1:20)

## 2 Complete the following:

- (1) Half km.: 250 metres = ..... (in the simplest form)
- (2) The range of the set of values 7,3,6,9 and 5 is .....
- (3) If A: B = 3:4, B: C = 4:5, then A: C = .....:
- (4) The drawing scale =  $\frac{1}{\text{The real length}}$

#### Final Examinations

- (5) The two diagonals are equal in length in each of ......, .....
- (6)6,8,3, ..... (Complete the missing number to be proportional)
- (7)  $\frac{1}{2}$ :  $\frac{1}{3}$  = ....................... (in the simplest form)

# 3 Answer the following questions:

- (1) Hassan spends L.E. 45 within 3 days, what is the rate of what Hassan spends per day?
- (2) A vessel in the shape of a cube with edge length 30 cm. is filled with honey. Calculate the capacity of the vessel.
- (3) In one of our schools, there are 560 students, if the number of girls is  $\frac{3}{5}$  the number of boys. Find each of the number of boys and girls.

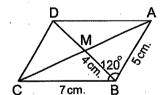
### (4) In the opposite figure:

ABCD is a parallelogram in which

BM = 4 cm., 
$$m (\angle ABC) = 120^{\circ}$$

Without using geometrical instruments

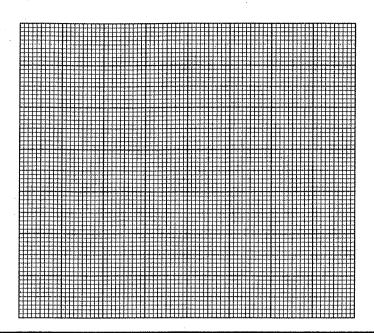
, find m ( $\angle$  ADC) and the perimeter of  $\Delta$  BCD



(5) The following table shows the number of hours which the pupils of a class spend daily in front of the computer:

Number of hours	- 1	-2	- 3	<b>-4</b>	- 5	<b>–</b> 6	Total
Number of pupils	8	10	12	6	4	2	42

Represent these data by a frequency curve.



# 12 Port Said Governorate

Maths Inspector



#### **Answer the following questions:**

	1	Choose	the	correct	answer	:
--	---	--------	-----	---------	--------	---

$$(1)\frac{2}{3}:3\frac{1}{3}=\cdots$$

(2) The centimetre cube is a unit of measuring the .....

(length or area or volume or weight)

(4) If Heba bought a mobile phone for 900 pounds with a discount 10 %, then the price of the mobile phone before the discount is ...... pounds.

(9000 or 1000 or 990 or 100)

(5) If the drawing scale < 1, this expresses .....

( equality or maximization or enlargement or minimization )

(6) A wooden box in the form of a cube, its external volume is 1 000 cm<sup>3</sup> and its capacity is 729 cm<sup>3</sup>, then the volume of wood of the box = ..... cm<sup>3</sup>

(0.729 or 1729 or 271 or 729000)

(7) The diagonals are perpendicular in .....

(rectangle or trapezoid or rhombus or parallelogram)

(8) The ratio between the side length of the square to its perimeter is .....

(1:2 or 1:3 or 4:1 or 1:4)

#### Final Examinations

(9) If the ratio among the measurements of the angles of a triangle is 1:2:3, then the measurement of the smallest angle is ......°

(10 or 20 or 30 or 60)

(10) 1 
$$\frac{3}{4}$$
 = ..... %

(11) If one angle of parallelogram is right, then it is called .....

(rectangle or trapezoid or rhombus or rhombus)

(12) The following data are descriptive data except .....

(age or birth place or blood species or favourite colour)

## 2 Complete the following:

- (1) The range of the set of values 8,1,9,11 and 7 is .....
- (2) The agricultural tractor ploughs 28 feddans in 4 hours, then the time which needed to plough 42 feddans is ...... hours.
- (3) If the height of the fence of the villa in the design is 5 cm. and its real height is 5 metres, then the drawing scale is .....:
- (4) 5 000 grams: 8 kilograms = ..... (in the simplest form).
- (5) If A: B = 1:2, B: C = 2:5, then A: C = .....:
- (6) A cube of edge length 5 cm., then its volume = ..... cm<sup>3</sup>
- (7) If  $\frac{2}{5} = \frac{x}{20}$ , then  $x = \dots$
- (8) If the volume of a cuboid is 64 cm<sup>3</sup> and the area of its base is 16 cm<sup>2</sup>, then its height = ..... cm.

# 3 Answer the following:

(1) In the opposite figure:

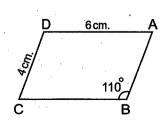
ABCD is a parallelogram, find:



**[b]** m (∠ A)

[c] The length of AB

[d] The perimeter of the shape ABCD



(2)	If the buying price of electric sets is L.E. 72 000 and sold at 15 % profit.  Calculate the selling price.
(3)	A cuboid tin with inner dimensions 2 dm. ,3 dm. and 4 dm. was full of honey.  Calculate the price of honey , given that the price of one litre is L.E. 20
(4)	In one of our schools, there are 1 000 students, if the ratio between the number of boys and the number of girls is 2:3, find each of the number of
	boys and girls.
(5)	The following table shows the marks of 50 students in one month in maths :

	·				
Marks	10 –	20 –	30 –	40 – 50	Total
Number of students	6	10	20	14	50

Represent these data by the frequency curve.

771	T	1.3	7 1	1	ľί	~	т	т	т	7	77	T	T	m	П	Т	T		п	Т	Т	ш	Т	П	I	$\mathbf{L}_{3}$	1	L		Т	Ш	1				1-1	_	1	н	4	4	ч	4	4.	н	4	4	4
$\pi$	$\mathbf{r}$	II	П	1		I	Ι		Н	1	П	П	I.			7	3		_	1			L	П	1	П	4	4	ц	4	14	4	Н	4	+-:	4	4	+-	н	+	1	Н	+	+	Н	4-	+	+
	п	$\mathbf{u}$	П	1		Ι	Т		Н	I	П	u.	I.	L		1	3_	Ц		T	1.	щ	1	Ц	4	Н	4	1	н	4	14	4	44	4	4	н	4	╄	H	+	+	Н	+	4	Н	4	+	┿
$\Pi\Pi$	EL	11.	ŁТ	L		4	I.	L	Ц	1	Ц	ч	1	L	_	4	ı.	Ц	4	4.	١.,	-	1.	н	4	Н	4	44	н	+	H	+	н	4	4	Н	+	₽	₽		1-	1-6	ϥ	4-	н	+	╬	+
1.1.1.	1	14.	ш	1	ш	1	4.	H	ш	4	н	4	4	1	Ц	4	1	ч	4	4	4	4	+	н	+	н	4	+	н	+	₩	+	+-	+	+-	4	+	┿	++	+	٠	Н	÷	+-	H	+	+	t
111	Ц.	ы.	1-1	1	ш	4	4.	1	Ц.	4-	Н	1	4.	H	-4	4	ļ~	ч	4	+	+-	н	4-	Н	+-	Н	+	+~	Н	┿	Н	+	н	+	+-	Н	+	ᠰ	1-1	+	+-	H	4	tt	+	+	+	t
	и.	Ц.	ш	4.	ч	4	4.	1	1	4	н	н	-	Н	Н	4	<del>4</del> ~	w	4	-}-	4	+	+-	ł-⊦	+-	+-	-+-	++	н	4-	н	+	+	+	+-	-+	+	┿	<del>} - }</del>	+	+-	н	4	4	M	+	+	t
	11	Н.	н	-	Н	-1	4	1.	H	+	н	Н	+	н	Н	+	+~	ы	4	4	+	1	+	Н	4	Н	4	+	H	⊹	Н	-+-	+-	+	+	H	+	+-	Н	ナ	+-	H	-†	+	H	+	+	t
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# 13 Kafr El-Sheikh Governorate

Maths Inspection



#### **Answer the following questions:**

# 1 Choose the correct answer between brackets :

- (2) If 5, 6, x and 12 are proportional numbers, then  $x = \dots$

(8 or 12 or 5 or 10)

(3) An agricultural machine ploughs 17 feddans in 8.5 hours, then the rate of performance of the machine = ..... feddans/hour

(2 or 4 or 2.5 or 4.5)

(4) If a: b = 50 % and b: c = 2:3, then a: c = ......

(1:2 or 2:3 or 2:6 or 3:1)

- (5) If the volume of a cuboid equals 360 cm<sup>3</sup>, its length is 9 cm. and its width is 8 cm., then its height = ..... cm. (5 or 40 or 48 or 72)
- (6) If one angle of the parallelogram is right angle, and has two adjacent sides are equal in length, then it is called .....

(trapezium or square or rectangle or rhombus)

(7) The ratio between the side length of the square and its perimeter = .....

(4:1 or 1:4 or 1:3 or 1:6)

(8) If the drawing scale < 1, then it expresses ......

(enlargement or congruency or reduction or equivalent)

- (9)  $4.250 \text{ cm}^3 = \dots \text{mm}^3$  (4.250 or 42.5 or 0.425 or 4.25)
- (10)  $3\frac{4}{7}:3\frac{1}{8} = \dots$  (7:8 or 8:7 or 1:4 or 1:1)
- (11) If the price of some goods is L.E. 256 and if the price became L.E. 192 during the discount, then the percentage of the discount equals ......

(16 % or 75 % or 33 % or 25 %)

(12) ABCD is a parallelogram, then m ( $\angle$  A) + m ( $\angle$  B) = ················°

(90 or 108 or 180 or 360)

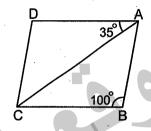
## 2 Complete each of the following:

(13) Emad sold a flat with profit 5 %, if his profit was L.E. 7 500, then the selling price of the flat is L.E.

(15) 
$$\frac{1}{2} : \frac{1}{3} : \frac{1}{4} = \dots : \dots : \dots : \dots : \dots : \dots : \dots$$
 (in the simplest form)

(16) In the opposite figure:

ABCD is a parallelogram, then m (∠ ACD) = .....°



- (18) The volume of a cuboid is 64 cm<sup>3</sup> and the area of its base is 16 cm<sup>2</sup>, then its height = ..... cm.
- (19) The following figure in the pattern is is is is is is is in the pattern is in t
- (20) The following table shows the marks of 40 students in a test, then the number of students who got less than 30 marks = .....

Marks	10 –	20 –	30 – 40
Number of students	10	13	17

### 3 Answer the following:

(21) A cube of cheese with edge length 15 cm., it is wanted to divide it into small cuboids each of dimensions 3 cm., 5 cm. and 1 cm. Find the number of resulting small cuboids of cheese.

(22) The ratio between the measures of two consective angles in a parallelogram is 4 : 5 Find the measure of each of them.

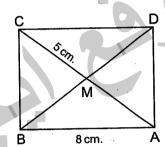
(23)	Three persons shared in a business, the first paid L.E. 60 000, the second
	paid L.E. 80 000 and the third paid L.E. 90 000 At the end of the year the
	profit was L.E. 20 700 Find the share of each one.

 ,

### (24) In the opposite figure:

ABCD is a rectangle in which AB = 8 cm
and MC = 5 cm. Find :
In Length of AM In Length of DB

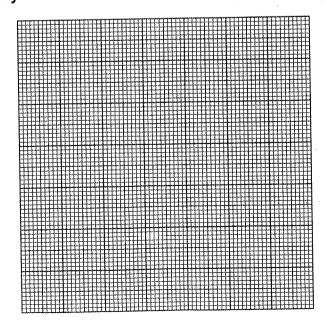
[a]	Length of AM	[b] Length o	of DB
[c]	Perimeter of $\Delta P$	AMB	



(25) The following table shows the ma	rks of 30 pupils	s in mathematics :

Marks	10 –	20 –	30 –	40 —	Total
Number of students	5	7	10	8	30

Draw the frequency curve for this distribution.



# 14 El-Beheira Governorate

Rashid Educational Zone Rashid Language School



#### **Answer the following questions:**

	γ,				
1	Choose	the	correct	answer	:

(1) 1 
$$\frac{3}{4}$$
 = ..... %

(2) If 6, 8, 3 and 
$$x$$
 are proportional numbers, then  $x = \dots$ 

(3) 6 500 dm
$$^3$$
 = ..... m $^3$ 

$$(4)\frac{1}{2}:\frac{1}{3}=\cdots\cdots:$$

(5) The ratio between the side length of the square and its perimeter

(6) The diagonals are perpendicular and equal in length in ......

(7) If the height of the fence of the villa in the design is 5 cm. and its real height is 5 metres, then the drawing scale is .....:

(8) The percentage is a ratio which its second term is ......

(9) The volume of a cube of edge length 3 cm. = ..... cm.

(10) If a:b=2:3 and b:c=3:5, then a:c=....::

(11) If the ratio between the weight of Hani and the weight of Ahmed is 5 : 6 and the weight of Ahmed is 60 kg. , then the weight of Hani = ..... kg.

(12) The opposite data are quantitative data except .....

(weight or age or temperature degrees or blood species)

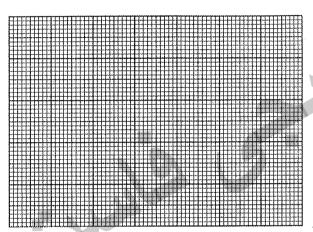
# 2 Complete the following: (13) The proportion is ..... (14) 3 000 gm. : 5 kg. = ..... (in the simplest form) (15) If the drawing scale < 1, then this expresses (16) The following figure in this pattern is (17) The volume of a cuboid with a squared base of side length 6 cm. and its height is 10 cm. = ..... cm<sup>3</sup> (18) If the percentage of the number of girls in a class which mixed is 67 %, then the percentage of the number of boys in this class = (19) A computer colour printer prints 12 papers each 4 minutes, then the rate of work of this printer = ..... papers/minutes (20) The range of the set of values 7,3,6,9 and 5 is ..... Answer the following: (21) A primary school has 540 pupils. If the ratio between the number of boys to the number of girls is 4:5, calculate the number of each boys and girls. (22) In the opposite figure : ABCD is a parallelogram in which AB = 6 cm. , BC = 7 cm. and m ( $\angle$ C) = 70° Find: [a] m (∠ D) = ··············· **[b]** AD = ..... cm. (23) A company for selling the electric sets. It shows TV set for L.E. 2 100, if the percentage of the profit is 12 % Find the buying price of TV set.

(24) A container has 12 litres of honey. It is wanted to put them in smaller bottles the capacity of each of them is 400 cm<sup>3</sup> Calculate the number of bottles which is needed for that.

(25) The following table shows the marks of students in one month in math:

Marks	10 –	20 –	30 –	40 – 50	Total
Numbers of students	5	15	20	10	50

Represent these data using the frequency curve.



# El-Menia Governorate Kafr El-Mansorah Formal Languages Primary School

El-Menia Educational Zone



Answer the following questions:

### Choose the correct answer:

(1) If 3 a = 4 b, then, 
$$\frac{a}{b}$$
 = .....

$$(\frac{3}{4} \text{ or } \frac{2}{3} \text{ or } \frac{4}{3} \text{ or } \frac{3}{2})$$

(2) If 
$$\frac{4}{6} = \frac{12}{x}$$
, then  $x + 2 = \dots$ 

(3) 300 grams : 
$$1\frac{1}{2}$$
 kilogram = .....:

$$(\frac{1}{2} \text{ or } \frac{1}{3} \text{ or } \frac{2}{5} \text{ or } \frac{3}{4})$$

- (5) The ratio between the circumference of the circle and its diameter  $(\frac{\pi}{2} \text{ or } \pi \text{ or } \frac{1}{\pi} \text{ or } 2\pi)$ length is .....
- (6)  $300 \text{ cm}^3 + 3.7 \text{ litres} = \dots \text{ litres}$  (6.7 or 4 or 3.6 or 303.7)

(7) An agricultural machine ploughs 6 feddans in 3 hours, then the rate of performance of the machine is ..... feddans/hour

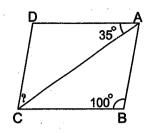
	(8) $\frac{1}{6}$ : 3 $\frac{1}{3}$ in the simplest form is
	(1:20 or 2:15 or 2:5 or 1:5)
	(9) If the volume of a cuboid = $40 \text{ cm}^3$ , and its height = $4 \text{ cm}$ ., then the area
	of its base = (10 cm. $or$ 10 cm <sup>2</sup> $or$ 160 cm <sup>2</sup> $or$ 160 cm.)
	(10) The sum of measure of two consecutive angles in a parallelogram =
	(60° or 90° or 180° or 360°)
	(11) The two diagonals are equal in length and not perpendicular in
	(rectangle $or$ rhombus $or$ triangle $or$ square)
	(12) The following data are descriptive except ·······
	(favourite colour or age or birth place or name)
2	Complete the following statements :
·	(1) If the real length of an insect is 0.3 mm. and its length in a picture is 4.5 cm.
	, then the drawing scale = ······::::::::::::::::::::::::::::::
	$(2)\frac{3}{10} = \cdots \%$
	(3) The ratio between 3 feddans: 40 kirats = ·····:::::::::::::::::::::::::::::::
	(4) If A: B = 2:3 , B: C = 3:5 , then A: C =:
	(in the simplest form)
	( 5 ) 39 days ≃ ······ week. (to the nearest week)
	(6) The sum of all edges of a cube is 24 cm., then its volume =
	(7) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	(8) The range of the set of values 7,3,6,9 and 5 is
3	Answer the following questions :
	(1) If the buying price of electric sets is L.E. 72 000 and sold at 12 % profit
	Calculate the selling price.
	(2) If the ratio among the measures of the angles of a triangle is 2:3:4
	Find the measure of the greatest angle in this triangle.

(3) In the opposite figure:

ABCD is a parallelogram in which

$$, m (\angle B) = 100^{\circ}, m (\angle DAC) = 35^{\circ}$$

Find: m (∠ ACD)

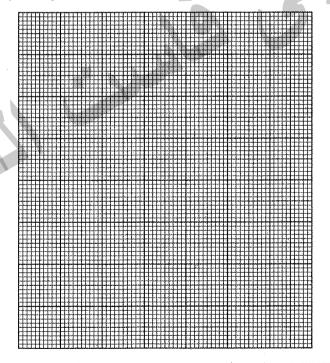


(4) A cuboid tin with inner dimensions 2 dm., 3 dm. and 4 dm. was full of honey. Calculate the price of honey, given that the price of one litre is L.E. 20

(5) The following table shows the marks of 100 students in one month in math test:

Marks	10 –	20 –	30 –	40 – 50	Total
Number of students	15	30	40	15	100

Draw the frequency curve of this distribution.



16 Souhag Governorate

Maths Supervision



**Answer the following questions:** 

1 Choose the correct answer:

(1) If a:b=2:3, b:c=6:7, then  $a:c=\cdots$ 

(7:4 or 4:7 or 12:7 or 6:7)

(2) The range of the values 7, 3, 6, 15 and 10 is .....

(4 or 7 or 12 or 15)

- (3) If  $\frac{x}{9} = \frac{4}{3}$ , then  $x + 2 = \dots$
- (12 or 14 or 16 or 20)
- **(4)** 1 (35 % + 25 %) = ···············

 $(\frac{1}{2} \text{ or } \frac{1}{3} \text{ or } \frac{2}{5} \text{ or } \frac{3}{4})$ 

(5) The ratio between 3 feddans: 24 kirats = .....

(3:2 or 3:1 or 1:8 or 1:4)

(6) The number of parallelograms in the opposite figure is .....



(9 or 7 or 5 or 4)

(7) If the volume of a cuboid =  $300 \text{ cm}^3$ , its base area =  $25 \text{ cm}^2$ , then its height = .... cm. (12 **or** 13 **or** 14 **or** 15)

- (8) 250 gm.:  $\frac{1}{2}$  kg. = ..... (2:
  - (2:1 or 1:2 or 1:5 or 5:1)

(9) A cube of volume 125 cm<sup>3</sup>, then the area of its base = .....

(25 cm<sup>2</sup> or 25 cm. or 5 cm<sup>2</sup> or 5 cm.)

(10) The following data are descriptive except the .....

(favourite colour or birth place or age or blood species)

(2 or 4 or 3 or 5)

(11) In the opposite figure:

The number of trapezoids is .....

(12) 23 cm<sup>3</sup> = ..... litres.

(0.23 or 2300 or 0.023 or 230)

### Complete each of the following:

- (1)  $\frac{1}{4}:\frac{1}{3}:\frac{1}{2}=\cdots$  (in the simplest form)
- (2) If the drawing scale > 1, then this expresses ......
- (4) The difference between the maximum value and the minimum value is called .....
- (5) The number of edges of a cube = ..... edges.
- (7)  $300 \text{ mm}^3 = \dots \text{ cm}^3$
- (8) From the properties of the proportion, the product of the extremes = the product of the ......

# 3 Answer the following questions:

(1) A metallic cube of edge length 12 cm., it needs to be converted it into ingots in the shape of cuboid each of them of dimensiona 3 cm., 4 cm. and 6 cm. Calculate the number of ingots that are obtained.

(2) The ratio among the lengths of the sides of a triangle is 2:3:4 and the preimeter of the triangle = 36 cm.

Calculate the length of each side of the triangle.

#### (3) In the opposite figure:

ABCD is a parallelogram in which

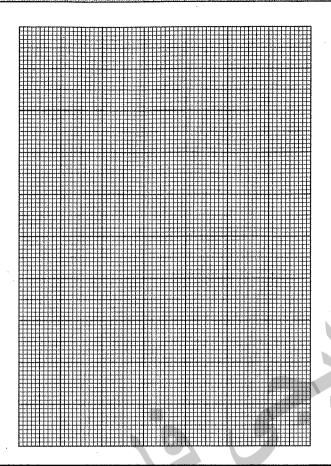
AB = 5 cm.  $_{9}$ BC = 6 cm. m ( $\angle$  B) = 100° and m ( $\angle$  DAC) = 35°, without using measuring tools, find:



- [c] The perimeter of the parallelogram ABCD = ..... cm.
- (4) The following table shows the ages of visitors to a museum during a certain period :

Visitor's age	10 –	20 –	30 –	40 –	50 –	Total
Frequency	7	10	15	20	13	65

Draw the frequency curve for this distribution.



# 17 Qena Governorate

Maths Supervision



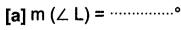
#### **Answer the following questions:**

### 11 Complete each of the following:

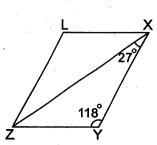
- (1) 30 days  $\simeq$  ..... weeks. (to the nearest week)
- $(2)1\frac{3}{4} = \dots \%$
- (3) If the volume of a cuboid is 64 cm<sup>3</sup> and the area of its base is 16 cm<sup>2</sup>, then the height = ..... cm.
- (4) If x, 18, 6 and 9 are proportional quantities, then  $x = \cdots$
- (5) If a:b=2:3 and b:c=3:5, then a:c=.....
- (6) If the marks of 6 pupils in one test are 29, 33, 57, 40, 36, 49, then the range of these marks = .....

#### (7) In the opposite figure:

XYZL is a parallelogram in which  $m (\angle Y) = 118^{\circ}$  and  $m (\angle YXZ) = 27^{\circ}$ , then :



(8) The area of the triangle =  $\frac{1}{2} \times \dots \times$ 



Choose the correct answer from those given :
(9) The opposite data are descriptive except
(The favorite colour or birthday or age or blood species)
(10) 4.6 litres = ··········· mL. (46 or 460 or 4600 or 46 000)
(11) $\frac{2}{3}$ : 3 $\frac{1}{3}$ =
(12) The volume of the cuboid whose dimensions are 2 cm. , 3 cm. , 5 cm.
= cm <sup>3</sup> (10 or 25 or 30 or 50)
(13) The centimetre cube is a unit for measuring
( the perimeter $or$ the area $or$ the volume $or$ the length )
(14) If one of the angles of a parallelogram is right and two of its adjacent sides
are equal in length, then it is called
(rhombus or square or triangle or rectangle)
(15) The drawing scale =
$(\frac{\text{length in reality}}{\text{length in drawing}}  \text{or}  \frac{1}{\text{length in reality}}  \text{or}  \frac{\text{length in drawing}}{\text{length in reality}}  \text{or}  \frac{1}{2})$
(16) A tractor ploughs 28 feddans in 4 hours, then the time which is needed to
plough 42 feddans =hours. (4 or 6 or 7 or 8)
(17) $\frac{3}{4} = \dots$ (as a decimal fraction) (0.2 or 0.5 or 0.25 or 0.75)
(18) 45 % = ······ (as a fraction in the simplest form)
$(\frac{45}{1000} \text{ or } \frac{9}{20} \text{ or } \frac{4}{10} \text{ or } \frac{5}{100})$
(19) The ratio between 12 kirats and 2 feddans = ······::::::::::::::::::::::::::::::
(1:4 or 4:1 or 1:6 or 6:1)
(20) If a man distributed L.E. 200 among his three sons in the ratio 2:3:5
, then the share of the third = L.E
(50 or 100 or 150 or 75)

# 3 Answer the following:

а	cube of metal its nd converted into 4 cm. , and 6 cm	alloys in the f	orm of a cube	oid with dime	nsions 3	cm.
•••	•••••••••••••	•••••				•••••
		(a. a. a	4. P. C. P. P. P. C. P. P. P. P. C. P.			

(22)	Ahmed draw a picture of his brother Osama with a drawing scale 1 : 40
	If the real height of Osama is 160 cm. What is height in the picture?
(23)	A triangular garden in a school, the ratio between its side lengths is 3:4:5
	, if the perimeter of the garden is 120 metres , calculate the length of each of
	the sides of the garden.

(24) The following table shows the extra money which 100 workers got in a month in a factory :

The extra money	20 –	30 –	40 –	50 –	60 –	70 –	Total
Number of workers	20	15	30	20	10	5	100

[a] Draw the frequency curve of this distribution.

[b] What is the number of workers who obtained extra money less than 50 pounds?

# **Luxor Governorate**

#### Luxor Educational Directorate Maths Department



Answer the following questions :		
1 Choose the correct answer:		
(1) Parallelogram is a rectangle if on	e of its angles is	• .
(r	ight <i>or</i> acute <i>or</i> obtus	se <i>or</i> straight)
(2) The ratio between the side length	of the square to its perime	eter
is	(1:5 or 1:3 or	1:4 <b>or</b> 4:1)
(3) A car covers 240 km. in 3 hours	then the car speed is ( 60 <b>or</b> 80 <b>o</b> i	
(4) The simplest form of the ratio 2.4	: 18 =::	
	(2:15 or 1:6 or	6:7 <b>or</b> 5:3)
(5) In the proportion $6, 8, 3, x, t$		
		or 4 or 3)
(6) All of the following are considered	d descriptive data except	· · · · · · · · · · · · · · · · · · ·
	ame <b>or</b> age <b>or</b> address	
(7) 16 000 cm <sup>3</sup> = ············· litres.	(1.6 or 16 or	
(8) <del>2</del> = ············ %		or 60 or 10)
(9) If a:b=2:3 and b:c=5:6	•	_
(0)11075	(5:9 or 9:7 or 5:	
(10) The sum of all edge lengths of a		•
, then its volume is cm <sup>3</sup>	(49 or 343 d	or 28 or 14)
(11) 15 % of 400 = ······		or 80 or 60)
(12) 2 kg. : 3 500 gm. = ·····: : ······:	····· (2:3 or 7:6 or	4:7 <b>or</b> 5:4)
2 Complete the following :		
(1) The range of the set of values 7	, 3 , 8 , 9 and 5 is	
( 2 ) Diagonals are equal in length in e	each of and	••••
(3) If the drawing length is 3 cm. and scale is	I the real length is 18 m. , tl	hen the drawing
(4) The volume of a cuboid is 720 cm area iscm <sup>2</sup>	n <sup>3</sup> , and its height is 9 cm. ,	then its base
(5) If the buying price of some goods	s is L.E. 2 000 and it sold fo	r L.E. 1 800,

then the percentage of loss is ..... %

#### Final Examinations

(6) If 
$$\frac{2}{5} = \frac{8}{x}$$
, then  $x = \dots$   
(7) 1 – 70 % = \dots \%

1	R	) The simplest for	m of the ratio	、12 · 12 · 36 =		. •
1	. •		II OI LIIG IGLIG	, 12 , 10 . 00 -	•	

### Answer the following:

 The ratio between Mina's age and Ahmed's age is 7:11 difference between their ages is 8 years, find the age of	each of t	

(2)	A picture of a tree is drawn with a drawing scale '	1 : 100	, if the re	eal height of
t	the tree is 8 m., find its length in the picture.			

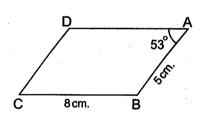
(3) A sw	imming pool is	in the shape of	of cuboid whose	e internal dimens	sions are
40 m	. , 30 m. and 1	l.8 m., find its	s capacity in litro	e.	
		************************	- "		

(4) In the opposite figure:

ABCD is a parallelogram in which AB = 5 cm., BC = 8 cm. and  $(\angle A)$  = 53° Find :



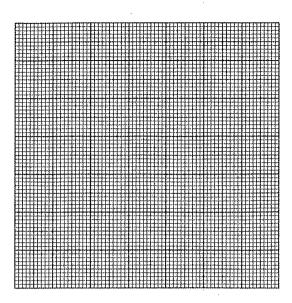
[b] The length of AD and the length of DC



(5) The following table shows the ages of visitors to an exhibition within an hour of a day:

Visitor's age	10 –	20 –	30 –	40 –	50 –	Total
Number of visitors	6	9	12	10	8	45

Draw the frequency curve for this distribution.



# 19 Aswan Governorate

Aswan Educational Directorate Eng. M.M. Yacoub Formal Language School



#### **Answer the following questions:**

### 1 Choose the correct answer of the following :

(1	) The following dat	a are quantitative	except
----	---------------------	--------------------	--------

(age or weight or name)

- (2) If the sum of the edge lengths of a cube is 36 cm., then its volume = .....cm<sup>3</sup> (3 or 27 or 12)
- (3) If a:b=2:3, b:c=6:7, then  $a:c=\dots$

(7:4 or 12:7 or 4:7)

- $(4) 12 \,\mathrm{dm}^3 = \dots \,\mathrm{cm}^3$   $(1 \,200 \,\,\text{or} \,\,12 \,000 \,\,\text{or} \,\,120)$
- $(5)\frac{2}{3}:3\frac{1}{3}=\cdots\cdots$  (1:5 or 2:3 or 2:5)
- (6) If one angle of a parallelogram is right, then it called a .....

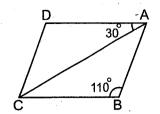
(rectangle or square or rhombus)

- $(7) 1 \frac{3}{4} = \dots \%$  (75 or 175 or 25)
- (9) If  $\frac{x}{18} = \frac{4}{6}$ , then  $x + 1 = \dots$  (13 or 11 or 12)
- (11) If a car covered 280 km. in 4 hours, then the rate of covered distance per hour = ...... km./hr. (7 or 70 or 700)
- (12) Two wires , the ratio between their lengths is 3:4 and their sum is 140 cm. , then the length of the second wire is ...... cm. (30 or 40 or 80)

2	Complete each of the fo	llowing :
	(1) The following figure in	n this pattern isis
	( <b>2</b> ) Drawing scale =	······································
	(3) If the volume of a cub area iscm <sup>2</sup>	poid is 560 cm <sup>3</sup> and its height is 8 cm., then its base
	(4) If the marks of 5 pupi range of marks is	Is in a test are 36,40,57,29 and 33, then the
	<b>(5)</b> 1 – (25 % + 30 %) =	%
	( 6 ) 80 minutes : 2 hours	= ······:: (in the simplest form)
		en the length between them on that map is
	(8) The ratio between ler perimeter =	ngth of side of an equilateral triangle and its
3	Answer the following :	
	(1) Two persons started	a commercial business, the first paid L.E. 5 000 and
	the second paid L.E.	8 000, at the end of the year the profit was L.E. 3 900
	Calculate the share o	f each of them from profit.
		res of oil, it is wanted to put them in small bottles, the
	capacity of each of th	em is 400 cm <sup>3</sup> Calculate the number of bottles.
	(3) If buying price of elec	tric sets is L.E. 72 000 and sold at 12 % profit.
	Calculate the selling p	orice.

(4) In the opposite figure:

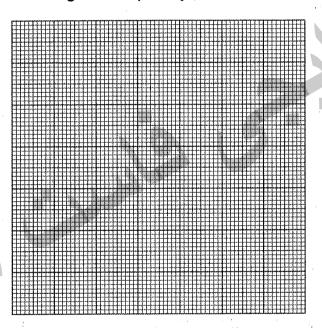
ABCD is a parallelogram, then find:



(5) The following table shows the number of hours which spent by 40 pupils to study their lessons daily:

Number of hours	1 –	2 –	3 –	4 —	5 – 6	Total
Number of pupils	6	3	8	12	11	40

Represent these data using the frequency curve.



# 20 South Sinai Governorate

El-Tur Educational Zone Maths Inspection



**Answer the following questions:** 

1 Choose the correct answer:

(1) If 2,5, x and 15 are proportional, then  $x = \dots$ 

(2 or 5 or 6 or 15)

(2) The percentage is a ratio its second term is ......

(10 or 100 or 1000 or 10000)

(3) 3 litres = ---- cm<sup>3</sup>.

(3 or 30 or 300 or 3000)

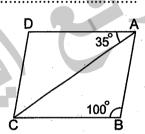
(4) If the ratio between a child's age to his father's age is 2:13 and the child's age is 6 years, then father's age = ...... years.

(6 or 15 or 39 or 41)

	(5) The ratio between the two numbers 1.6 and 1.8 = ······:::
	(1:4 or 8:9 or 3:8 or 1:16)
	(6) The number of edges of the cube the number of faces of the cuboid. ( $ >  or  <  or  =  or                      $
	(7) A merchant bought a TV set for L.E. 1 800 and he sold it for L.E. 2 000, then his profit = L.E
	(8) The range of the set of values 7,3,6,9 and 5 is
	(4 or 2 or 6 or 12)
	(9) If the real length is 6 m. and the drawing length is 6 cm., then the drawing scale = (1:10 or 1:100 or 1:100 or 1:6)
	(10) Antecedent of the ratio 3:11 is
	(11) An agricultural tractor ploughs 28 feddans in 4 hours, then its rate of performance = feddans / hour (4 or 6 or 7 or 8)
	(12) If one of the angles of a parallelogram is right angle, then it is called
2	Complete:
	$(1)\frac{3}{4} = \dots \%$
	( 2 ) The ratio between the side length of the square and its perimeter = ···································
	(3) If the volume of a cuboid is 64 cm <sup>3</sup> and the area of its base is 16 cm <sup>2</sup> , then its height = cm.
	(4) 250 grams: $\frac{1}{2}$ kilogram = (in the simplest form)
	(5) If the drawing scale < 1, this expresses
	(6) If a: b = 2:3 , b: c = 3:5 , then a: c =:
	$(7) 4 \text{ m}^3 = \dots \text{dm}^3$
	(8) The data: the age, the length, the weight and the favorite color are quantitative data except
3	Answer the following :
	(1) Nahed bought an automatic washing for L.E. 3 600 and the discount was 10 % Calculate the original price of the washing machine before discount.

*****************	••••••	 •	 ••••••	***************	•••••

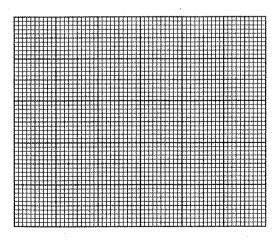
(4) In the opposite figure:
ABCD is a parallelogram, find:



(5) The following table shows the marks of 100 students in one maths test:

Marks	10 –	20 –	30 –	40 –	Total
Number of students.	15	30	40	15	100

Draw the frequency curve of this distribution.



وقع المعالمة 